SIGN SPACING, DEVICE SPACING AND CHANNELING TAPER LENGTHS

SIGN SPACING FOR ADVANCE SIGN SERIES (1) (2)		
SPEED MPH	Non-Divided Highways	Divided Highways
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	1000	1000

TAPER LENGTHS AND SPACING OF CHANNELING DEVICES					
SPEED MPH	MINIMUM TAPER LENGTHS (L) FOR LANE WIDTHS (W)			MAXIMUM CHANNELIZER SPACING	
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA
0-35	205	225	245	35	50
40-45	450	495	540	40	100
50-55	550	605	660	50	100
60-70	700	770	840	60	100

TAPER LENGTHS AND END TREATMENTS FOR CONCRETE BARRIER				
SPEED (1) MPH	MINIMUM TAPER LENGTHS (M) FOR LANE WIDTHS (3)			END TREATMENT (4)
	10 FT	11 FT	12 FT	
≤40	160	168	176	BARRIER HEIGHT TRANSITION
≥40	160	168	176	APPROVED CRASH CUSHION

Dimensions in feet unless otherwise noted
Posted speed limit prior to road work

Formulas for Determining Taper Lengths			
Speed Limit (S)	Taper Length (L) Meters	Speed Limit (S)	Taper Length (L) Feet
60 km/h or less	$L=\frac{WS}{155}$	40 mph or less	$L=\frac{WS^2}{60}$
70 km/h or more	$L=\frac{WS}{1.6}$	45 mph or more	$L=WS$

Table 6c-4.

Note:
L = Taper Length in Feet
S = Posted Speed in mph
W = Lateral Shift in Feet

Notes.

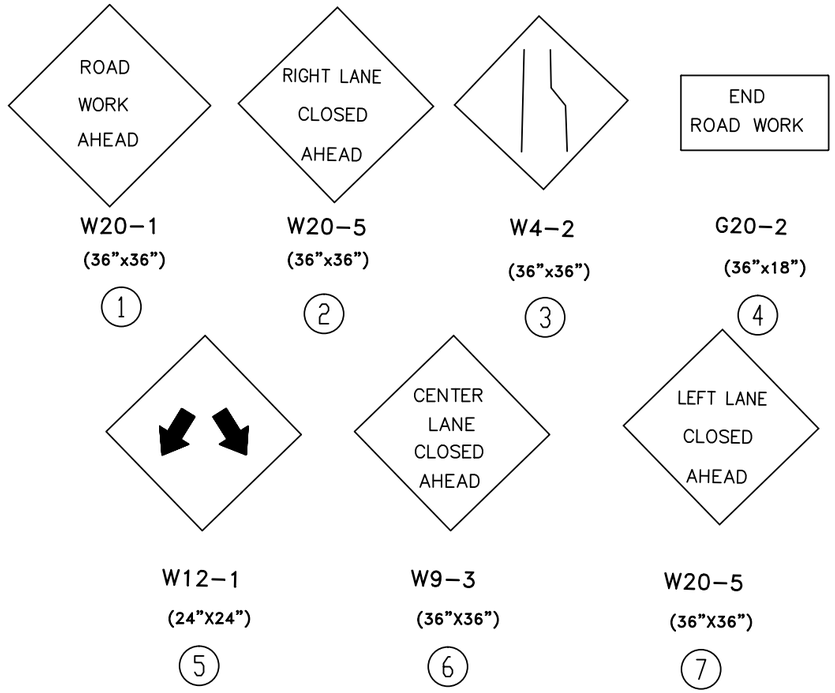
(1) Spacing between signs and spacing between last sign and flagger, beginning of taper, or signed condition.
(2) Spacings may be adjusted as necessary to meet field conditions.
(3) Taper Lengths shown include length required for lane and 10 ft shoulder.
(4) Concrete barrier may be installed at an 8:1 flare rate from the shoulder point to the limits of the clear zone where the side slope is 6:1 or flatter.

Buffer Space Table

LENGTH OF LOGITUDINAL BUFFER SPACE	
SPEED * (mph)	LENGTH (feet)
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

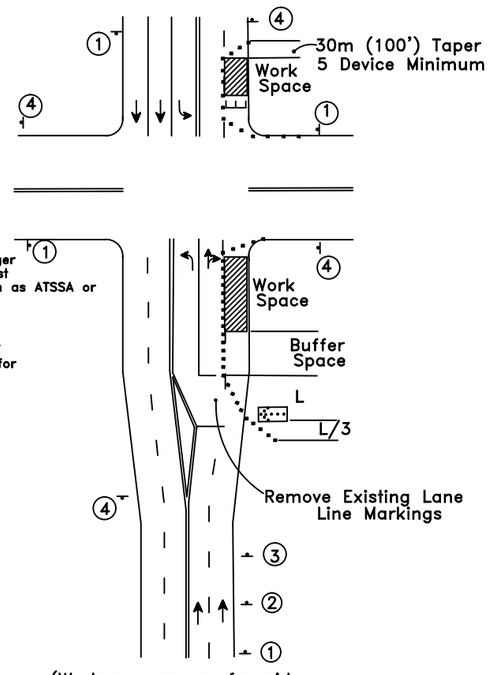
* POSTED SPEED, OFF-PEAK 85TH PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED IN MPH.

Sign Legend

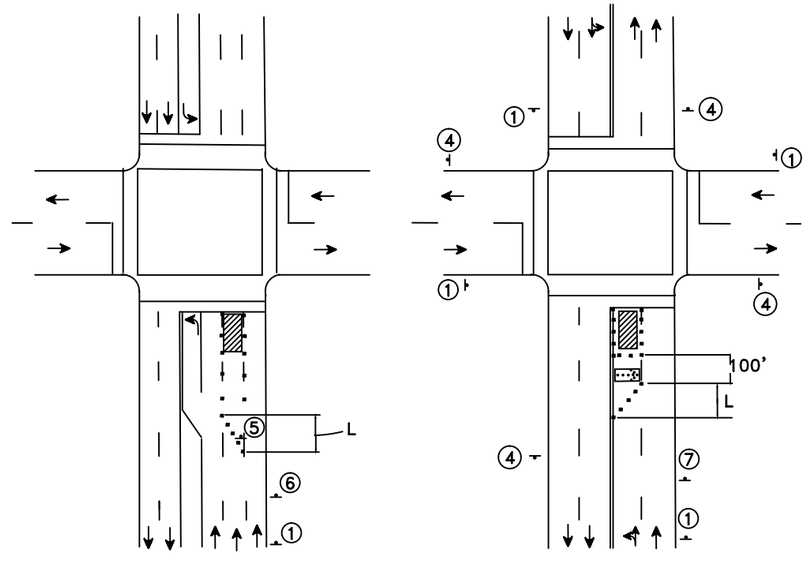


Temporary Traffic Control Notes:

1) Cones may be used for daylight operation only.
2) For signalized intersections, adjustments may need to be made to signal phasing or timing indications or detector settings.
3) Pavement marking and barricades optional for short term operation.
4) For short term operations, where it is not feasible to modify pavement markings, a 3m (10') channelizing device spacing is used where traffic is guided across double yellow lines or other conflicting pavement markings.
5) The Contractor must obtain a street closure permit at least 14 days in advance of the proposed closure date in order to allow sufficient time for public notification. Contact the Street and Traffic Division at (816) 513-2679.
6) All signs, barricades, drums, markings and other traffic control devices shall conform to the latest revision of the Manual for Uniform Traffic Control Devices (MUTCD).
7) No work shall be done on the traveled roadway or within the clear zone between the hours of 7:00AM and 9:00AM and 3:00PM to 6:00PM Monday through Friday.
8) Where Flaggers are required, advanced signing shall be as permitted by MUTCD. the flagger shall meet the requirements of MUTCD with regard to character, attire, behavior, and must be certified as a flagger within a work area by a nationally recognized organization such as ATSSA or IMSA or an approved equal.
9) The Contractor shall be responsible for maintaining in position, cleaning and replacing, damaged Traffic Control Devices, Street Lights, and or other utilities.
10) The Contractor shall be responsible for keeping all traffic lanes clear of mud and debris.
11) Adequate clearance at intersections shall be maintained to provide proper sight distance for the safe operation of vehicles, signals, and provide safety for pedestrian traffic.
12) Payment will be made for "Traffic Control" as listed in the Proposal. Such payment shall constitute full compensation for all work necessary to complete the item.



(Work on near or far side – right lane closed at intersection)



Center lane closure near side of intersection Left lane closure near side of intersection

TEMPORARY TRAFFIC CONTROL ZONE

KANSAS CITY, MISSOURI
PUBLIC WORKS DEPARTMENT
TRANSPORTATION PLANNING AND DESIGN SECTION

TRAFFIC CONTROL PLAN

FEDERAL PROJ. NO. _____

PROJ. NO. _____

DRWN BY	DATE 8/01/13	SCALE N.T.S.
D.BUCHANAN	DSGN BY S. AKULA	CHKD BY S. AKULA

Sheet ____ of ____

TCD-0-1